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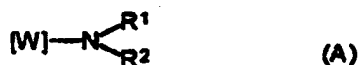
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(54) **Non-imidazole alkylamines as histamine H<sub>3</sub> - receptor ligands and their therapeutic applications**

(57) Compounds of formula (A):



wherein:

- W is a residue which imparts antagonistic and/or agonistic activity at histamine H<sub>3</sub>-receptors when attached to an imidazole ring in 4(5) position.
- R<sup>1</sup> and R<sup>2</sup> may be identical or different and represent each independently
  - a lower alkyl or cycloalkyl, or taken together with the nitrogen atom to which they are attached,
  - a saturated nitrogen-containing ring (I) as defined,

- a non-aromatic unsaturated nitrogen-containing ring (II) as defined,
- a morpholino group, or
- a N-substituted piperazino group as defined.

Compounds (A) are useful for preparing medicaments acting as antagonists and/or agonists at the H<sub>3</sub>-receptors of histamine.

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# EUROPEAN SEARCH REPORT

Application Number  
EP 98 40 3351

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-The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 14 October 1999	Examiner Scruton-Evans, I
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p>			

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Application Number  
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<p align="center">-The present search report has been drawn up for all claims</p>			
Place of search <b>MUNICH</b>		Date of completion of the search <b>14 October 1999</b>	Examiner <b>Scruton-Evans, I</b>
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<p>--- -/--</p>			
<p>-The present search report has been drawn up for all claims</p>			
Place of search		Date of completion of the search	Examiner
MUNICH		14 October 1999	Scruton-Evans, I
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EP 98 40 3351

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X	KIKUMOTO R ET AL.: "SYNTHESES AND PLATELET AGGREGATION INHIBITORY AND ANTITHROMBOTIC PROPERTIES OF 2-(OMEGA-AMINOALKOXY)PHENYLETHYLBENZENES" JOURNAL OF MEDICINAL CHEMISTRY, vol. 33, no. 6, June 1990, pages 1818-1823, XP000673455 * page 334; claim 1; examples 1-5,7; tables I-III *	16-28	
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<div style="text-align: center;">-The present search report has been drawn up for all claims</div>			
Place of search <b>MUNICH</b>		Date of completion of the search <b>14 October 1999</b>	Examiner <b>Scruton-Evans, I</b>
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LACK OF UNITY OF INVENTION  
SHEET B

Application Number

EP 98 40 3351

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: Claims 16-28,79

Compounds of the structural formula shown in which the NR1R2 groups are linked to an aromatic ring via a thioalkyl or alkoxy group, and their use as histamine H3-receptor agonists or antagonists.

2. Claims: 37-38

Defined compounds of the formula I1a or I1b which can be heterocyclic or not but which share the common formula I1a or I1b, but have only an NR1R2 in common with the claims 16-28, which cannot be considered to be a special technical feature.

3. Claims: 39-45,68-69

Compounds with an NR1R2 group bound to a piperidine or pyrrolidine, which is N-substituted, but which share only an NR1R2 group in common with subjects 1 and 2, which cannot be considered to be an essential technical feature.

4. Claims: 47-50

Compounds of the general formula VI, which have aryl-heteroatom-containing linker- attached to a phenyl ring, bearing the NR1R2 group. The NR1R2 group is the only common feature with subjects 1-3.

5. Claims: 51-53

Compounds containing a 5-membered aromatic heterocycle, to which the NR1R2 is attached. Only the NR1R2 is common to subjects 1-4

6. Claims: 55-56

Compounds of the formula VII1a or VII1b, which have no structural relation to any of the subject matters 1-5, apart from the NR1R2 group.

7. Claims: 57-60

Compounds of the formula IX, which have a linear structure including the N(R)-S(O)2-grouping, but which have only the NR1R2 in common with the subjects 1-6



European Patent  
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LACK OF UNITY OF INVENTION  
SHEET B

Application Number

EP 98 40 3351

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

8. Claims: 61-67

A compound of the formula XI or XII wherein the only common feature with subjects 1-7 is NR1R2, and which has a cyclic moiety R1x1 or R1x11

9. Claims: 70-72

Compounds with 4,5, or 6-membered N-containing ring, the only common feature with subjects 1-8 being the NR1R2 group.

10. Claim : 74

Compounds of formula XVII, characterised in the presence of an N-containing heterocycle, which is N-substituted by C=N-R4, and directly substituted by the NR1R2 group, the only common group with subjects 1-9

11. Claim : 75

Compound with a thiazole or benzthiazole ring, 2-substituted by the NR1R2-linker, with only the NR1R2 in common with the subjects 1-10

12. Claims: 81-83

Use of specifically named compounds, whose only common feature is a NR1R2 group, and which form no unifying common concept, as they have all such diverse structures

# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 98 40 3351

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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